

IN THE CLAIMS:

1. (currently amended) A catalyst ~~Catalyst~~ complex for ~~catalyzing~~ esterification and transesterification reactions, comprising:

- i. a polymeric titanium glycolate ~~having~~ represented by the formula



- ii. an alkali metal glycolate,

wherein the molar ratio of the polymeric titanium glycolate and the alkali metal glycolate is about 1.25:1 to about 100:1, ~~preferably about 1.25:1 to about 10:1.~~

2. (currently amended) The catalyst ~~Catalyst~~ complex according to claim 1, wherein ~~characterized in that the alkali metal is sodium and the glycolate has~~ is represented by the formula $\text{Na-O-CH}_2\text{-CH}_2\text{-OH}$.
3. (currently amended) The catalyst ~~Catalyst~~ complex according to claim 1 ~~or 2~~, ~~characterized in that the total content of the metals of the catalyst complex in a mixture of esterification components is 1 to about 70 ppm, preferably about 10 to about 50 ppm, referred to the acid esterification component~~ wherein the molar ratio of the polymeric titanium glycolate and the alkali metal glycolate is about 1.25:1 to about 10:1.
4. (currently amended) A process ~~Process~~ for the esterification of a dicarboxylic ~~carboxylic~~ acid compound and an alcohol ~~alcoholic~~ compound comprising contacting a process feed comprising a dicarboxylic acid compound and an alcohol compound with the ~~using a~~ catalyst complex of claim 1, wherein the ~~according to any of the preceding claims 1 to 3,~~

~~characterized in that the carboxylic acid compound is a dicarboxylic acid of compound is~~
~~represented by the formula HOOC-R-COOH, wherein R is, is a linear or branched, an~~
~~alkylen group, an arylene group, and alkenylen group, or a combination thereof alkyl,~~
~~alkenyl or aryl group containing 2 to 30 carbon atoms.~~

5. (currently amended) ~~The process~~ Process according to claim 4, ~~wherein characterized in~~
~~that R contains has about 2 to about 30, preferably about 4 to about 15 carbon atoms.~~
6. (currently amended) ~~The process~~ Process according to claim 4 ~~or~~ 5, ~~wherein the~~
~~dicarboxylic characterized in that the carboxylic acid compound is selected from the~~
~~group consisting of comprising~~ terephthalic acid, isophthalic acid, naphthalenic diacid,
succinic acid, adipic acid, phthalic acid, glutaric acid, oxalic ~~acid~~, acid and maleic acid
~~acid, and combinations thereof.~~
7. (currently amended) ~~The process~~ Process according to claim 6, ~~wherein the dicarboxylic~~
~~characterized in that the carboxylic acid compound is terephthalic acid.~~
8. (currently amended) ~~The process~~ Process according to claim 4 ~~or~~ 5, ~~wherein the~~
~~dicarboxylic characterized in that the carboxylic acid compound is an oligomer having~~
repeating units derived from a carboxylic acid.
9. (currently amended) The process Process according to claim 4, wherein any of the
~~preceding claims 4 to 8, characterized in that the alcoholic~~ the alcohol compound is
comprises an alkylene glycol represented by ~~of the formula HO-R'-OH, HO-R'-OH or a~~
polyalkylene glycol having represented by the formula HO-[R''-O]_n-H, ~~or combinations~~
~~thereof, wherein R' is a an-alkylene group, linear or branched~~ alkyl group, having 2 to

about 10, preferably 2 to 4 10 carbon atoms, and wherein R", ~~being the same or different,~~
is an alkylene is an alkyl group having 1 to about 10, preferable 1 to 5 10 carbon atoms.

10. (currently amended) The process ~~Process~~ according to claim 9, ~~characterized in that the~~
~~alcoholic~~ 6, wherein the alcohol compound is selected from the group comprising
consisting of ethylene glycol, propylene glycol, isopropylene glycol, butylene glycol, 1-
methyl propylene glycol, pentylene glycol, neopentylene glycol, and combinations
thereof.
11. (currently amended) The process ~~Process~~ according to ~~any one of the preceding claims 4~~
~~to 10, characterized in that~~ claim 4, wherein the process is carried out at a temperature of
about 150°C to about 500°C, preferably 250° to 300°C and at a pressure of about 0.001
atmosphere to about 10 atmospheres.
12. (currently amended) The process ~~Process~~ according to ~~any of the preceding claims 4 to~~
~~11, characterized in that~~ claim 10, wherein the process is carried out at a temperature of
about 250°C to about 300°C and a pressure of about 0.001 atmospheres to about 10
atmospheres.
13. (currently amended) The process ~~Process~~ according to ~~any of the preceding claims 4 to~~
~~12, characterized in that~~ claim 4, wherein the molar ratio of the alcoholic alcohol
compound to the ~~carboxylic~~ dicarboxylic acid compound is in the range of about 0.1:1 to
about 10:1, preferably about 1:1 to about 3:1.
14. (currently amended) The process ~~Process~~ according to ~~any on to the preceding claims 4 to~~
~~13, characterized in that the catalyst~~ claim 4, wherein the catalyst complex is present in

~~the range of about a concentration of about 1 ppm to about 70 ppm of esterification components, preferably about 10 to about 50 ppm, referred to the acid esterification component in the process feed.~~

15. (canceled) .
16. (new) The catalyst complex of claim 3, wherein the alkali metal glycolate is represented by the formula $\text{Na-O-CH}_2\text{-CH}_2\text{-OH}$.
17. (new) The process according to claim 7, wherein the alcohol compound comprises ethylene glycol.
18. (new) The process according to claim 10, wherein the molar ratio of the alcohol compound to the dicarboxylic compound in the process feed is in the range of about 1:1 to about 3:1.
19. (new) The process according to claim 4, wherein the catalyst complex is present in a concentration of about 1 ppm to about 50 ppm in the process feed.
20. (new) The process according to claim 9, wherein the catalyst complex is present in a concentration of about 1 ppm to about 50 ppm in the process feed.
21. (new) The process according to claim 12, wherein the catalyst complex is present in a concentration of about 1 ppm to about 50 ppm in the process feed.